

JUNIATA STREET IS ASSUMED TO RUN IN A NORTH/SOUTH DIRECTION

PROJECT DESCRIPTION

THIS PORTION OF THE PROJECT INVOLVES THE INSTALLATION OF PEDESTRIAN SIGNAL HEADS AND PUSH BUTTONS AT THE INTERSECTION OF JUNIATA STREET AND MD 7A (OTSEGO STREET), LOCATED IN HAVRE DE GRACE, HARFORD COUNTY, JUNIATA STREET IS ASSUMED TO RUN IN A NORTH/SOUTH DIRECTION.

NORMAL OPERATION

THE INTERSECTION WILL OPERATE IN A FOUR PHASE FULLY-TRAFFIC ACTUATED MODE WITH THE JUNIATA STREET APPROACHES RUNNING CONCURRENTLY AND THE OTSEGO STREET APPROACHES RUNNING CONCURRENTLY. PEDESTRIAN PHASING WILL BE PROVIDED ACROSS THE NORTH, SOUTH, EAST AND WEST LEGS OF THE INTERSECTION.

CONTROLLER REQUIREMENTS

THE EXISTING FULLY-TRAFFIC ACTUATED EIGHT PHASE TRAFFIC SIGNAL CONTROLLER HOUSED IN A POLE MOUNTED CABINET WILL BE UTILIZED.

GENERAL NOTES:

- I. ALL UNDERGROUND AND OVERHEAD UTILITIES SHOWN ON THESE PLANS ARE SCHEMATIC AND ARE NOT TO BE CONSIDERED COMPLETE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING ALL UTILITY COMPANIES PRIOR TO CONSTRUCTION SO THAT ALL UTILITIES MAY BE LOCATED IN THE FIELD. IF THE CONTRACTOR PERCEIVES THAT A CONFLICT BETWEEN THE UTILITIES AND THE TRAFFIC SIGNAL EQUIPMENT WILL OCCUR, THE CONTRACTOR SHALL NOTIFY THE APPROPRIATE PROJECT ENGINEER IMMEDIATELY.
- 2. PEDESTRIAN RAMPS ARE SHOWN IN APPROXIMATE LOCATIONS AND ARE NOT TO SCALE. ADDITIONAL SIDEWALK AND PEDESTRIAN RAMP IMPROVEMENTS TO BE PERFORMED BY OTHERS.

EQUIPMENT LIST "A"

A. EQUIPMENT TO BE SUPPLIED BY THE SHA

QUANTITY 4 EA

DESCRIPTION NEMA LOAD SWITCH

EQUIPMENT LIST "B"

B. EQUIPMENT TO BE FURNISHED AND/OR INSTALLED BY THE CONTRACTOR

ITEM NO.	QUANTITY	DESCRIPTION	6' 8i' 0 × 541
120500	L.S.	MAINTENANCE OF TRAFFIC	20' 0E C 7
203030	1 C.Y.	TEST PIT EXCAVATION	16 NAS TA - SE
585450	50 L.F.	REMOVE EXISTING PERMANENT PAVEMENT LINE MARKINGS - ANY WIDTH	A 23 20 10
585620	250 L.F.	12" HEAT APPLIED WHITE PERMANENT PREFORMED THERMOPLASTIC PAVEMENT MARKINGS (CROSSWALK)	NA CONTRACTOR OF THE PARTY OF T
585624	50 L.F.	24" HEAT APPLIED WHITE PERMANENT PREFORMED THERMOPLASTIC PAVEMENT MARKINGS (STOP LINE)	NONN SAS-
801004	1 C.Y.	CONCRETE FOR SIGNAL FOUNDATION	
802501	35 L.F.	NO. 6 AWG STRANDED BARE COPPER GROUND WIRE	
805050	4 EA	WEATHER HEAD. 3 INCH	
805135	35 L.F.	3 INCH SCHEDULE 80 RIGID PVC CONDUIT - TRENCHED	CONSTRUCTION DETAILS
805160	11 L.F.	1 INCH LIQUID TIGHT FLEXIBLE NON-METALLIC CONDUIT FOR DETECTOR SLEEVE	A. INSTALL TWO WAY PEDESTRIAN SIGNAL HEADS. WEATHERHEAD PUSH BUTTON AND SIGN ON EXISTING POLE.
810011	930 L.F.	LOOP DETECTOR SPLICED TO EXISTING 2-CONDUCTOR (ALUMINUM SHIELD)	B. USE EXISTING TRAFFIC SIGNAL CONTROLLER. MODIFY CONTROLLER TO ADD ALTERNATE PEDESTRIAN MOVEMENTS.
818004	1 EA	10 FOOT BREAKAWAY PEDESTAL POLE	C. USE EXISTING SPAN WIRE.
860276	14 EA	8" PEDESTRIAN SIGNAL HEAD SECTION - POLE MOUNT	
860280	2 EA	8" PEDESTRIAN SIGNAL HEAD SECTION - PEDESTAL POLE MOUNT	THERMOPLASTIC PAVEMENT MARKING (CROSSWALK).
861105	585 L.F.	ELECTRICAL CABLE - 2 CONDUCTOR (NO. 14 A.W.G)	E. REMOVE EXISTING PAVEMENT MARKING REMNANTS AND INSTALL 24" HEAT APPLIED WHITE PERMANENT PREFORMED THERMOPLASTIC PAVEMENT MARKING (STOP LINE).
861106	100 L.F.	ELECTRICAL CABLE - 3 CONDUCTOR (NO. 14 A.W.G)	F. ABANDON EXISTING LOOP. INSTALL NEW SPLICE KIT AND
861107	500 L.F.	ELECTRICAL CABLE - 5 CONDUCTOR (NO. 14 A.W.G)	LOOP WIRE. TIE INTO EXISTING HOME RUN CABLE IN HANDE
862102	270 L.F.	SAW CUT FOR SIGNAL (LOOP DETECTOR)	G. USE EXISTING HANDHOLE.
865001	4 EA	PUSH BUTTON AND SIGN (R10-4(1) PUSH BUTTON TO CROSS JUNIATA STREET)	H. INSTALL PEDESTRIAN SIGNAL HEAD AND WEATHERHEAD ON EXISTING POLE.
	FALLT		J. INSTALL CONCRETE FOUNDATION, PEDESTAL POLE.

EQUIPMENT LIST "C"

LEGEND OF	UNDERGROUND
AND DVERH	EAD UTILITIES
ACOTAL DADLE	
AERIAL CABLE	——— A ———
ELECTRIC CABLE	E E
TELEPHONE CABLE	
GAS MAIN	—— G ———
SEWER MAIN	\$ \$
WATER MAIN	—— ¥ ——— ¥ ———
CABLE TV	с

C. EQUIPMENT TO BE REMOVED AND RETURNED TO THE STATE HIGHWAY ADMINISTRATION, 7491 CONNELLEY DRIVE, HANOVER, MARYLAND 21076. QUANTITY DESCRIPTION

ALL REMOVED SIGNAL MATERIALS ARE TO BECOME THE PROPERTY OF THE CONTRACTOR



Juniata Street ONLY

19-20

D3-2 (MOD)

VARIABLE X 32"

PROPOSED RIGHT OF WAY.

J. INSTALL CONCRETE FOUNDATION. PEDESTAL POLE.

K. INSTALL FLEXIBLE CONDUIT SLEEVE.

L. INSTALL 3 INCH SCHEDULE 80 RIGID

PVC CONDUIT (TRENCHED).

M. USE EXISTING CONDUIT

ONE-WAY PEDESTRIAN SIGNAL HEAD, PUSH BUTTON

LOOP WIRE. TIE INTO EXISTING HOME RUN CABLE IN HANDHOLE.

AND SIGN.

BIORETENTION

PARK AND RIDE

PROPOSED

RIGHT OF WAY

FACILITY

FACILITY

17-18

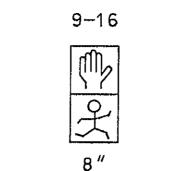
R3-5L

30" X 36"

1-8



EXISTING RIGHT OF WAY



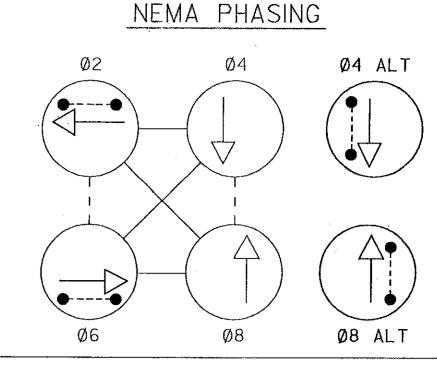
JUNIATA STREET

PROPOSED SIGNALS



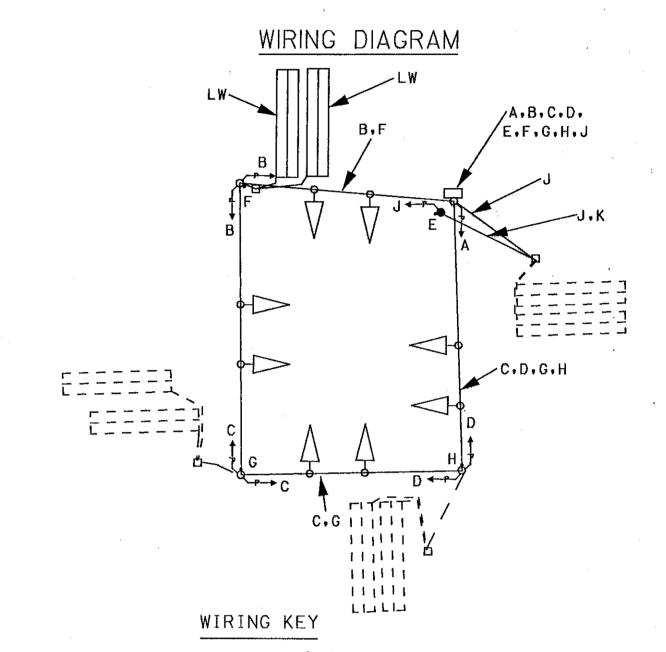
PROPOSED SIGNS





NOTE:

PHASES ASSOCIATED BY A DASHED LINE WILL OPERATE CONCURRENTLY PHASES ASSOCIATED BY A SOLID LINE WILL NOT OPERATE CONCURRENTLY



B.C.D } 5-CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G.) E.F.G.H 2-CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G.)

A.J 3-CONDUCTOR ELECTRICAL K STRANDED BARE COPPER

`J GROUND WIRE (NO. 6 A.W.G.)

LW | LOOP WIRE (NO. 14 A.W.G.)

PHASE	CHART

	•			•								,	<u> </u>	<u> </u>	<u> </u>	 	
PHASE 2 + 6	G	G	G	G	R	R	R	R	WALK	WALK	WALK	WALK	DW	DW	DW	DW	0
PED CLEAR	G	G	G	G	R	R	R	R	FL/DW	FL/DW	FL/DW	FL/DW	DW	DW	DW	DW	
2 + 6 CHANGE	Y	Y	Y	Y	R	R	R	R	DW	DW	DW	DW	DW	DW	DW	DW	
PHASE 4 + 8	R	R	R	R	G	G	G	G	DW	DW	DW	DW	DW	DW	DW	DW	1 4
4 + 8 CHANGE	R	R	R	R	Y	Y	Y	Y	DW	DW	DW	DW	DW	DW	DW	DW	} †
PHASE 4 + 8 ALT	R	R	R	R	G	G	G	G	DW	DW	DW	DW	WALK	WALK	WALK	WALK	9,49
PED CLEAR	R	R	R	R	G	G	G	G	DW	DW	DW	DW			1	FL/DW	1, 1111
4 + 8 ALT CHANGE	R	R	R	R	Υ	Y	Y	Y	DW	DW	DW	DW	DW	DW	DW	DW	
FLASHING OPERATION	Y	Y	Y	Y	R	R	R	R	DARK	DARK	DARK	DARK	DARK	DARK	DARK	DARK	

4 + 8 ALT CFLASHING OPERATION REVISIONS APPROVALS TEAM LEADER TRAFFIC ENGINEERING DESIGN DIVISION ASST. CHIEF TRAFFIC ENGINEERING DESIGN DIVISION ADDENDUM NO. 1 5/ /03 REVISED BORETENTION FACILITY

DIRECTOR, TRAFFIC & SAFETY

APRIL 2003 - INSTALL PEDESTRIAN SIGNAL

HEADS & PHASING ON ALL APPROACHES

SHA NO. HA2465181

Office of Traffic & Safety TRAFFIC ENGINEERING DESIGN DIVISION JUNIATA ST. AT MD 7A (OTSEGO ST.)

HAVRE DE GRACE

MARYLAND DOT - STATE HIGHWAY ADMINISTRATION

	12 OF 19
DRAWN BY: B. THOMPSON CHECKED BY: A. BUDNICHUK SCALE: 1' = 20' COUNTY: HARFORD COUNTY T.I.M.S. NO	SHEET NO.

H. INSTALL PEDESTRIAN SIGNAL HEAD AND WEATHERHEAD

MD 7A
STREET

RUMMEL, KLEPPER & KAHL, LLP

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